

IN THE SPECIFICATION:

Please replace paragraph [0021] with the following amended paragraph:

[0022] One skilled in the art would understand that cessation of the first cleaning step 110 may be prompted by any number of endpoints, in step 180. In some embodiments of the process 100, for instance, the endpoint 180 corresponds to a change in the concentration of cleaning by-products, such as an increase in fluorine and decrease carbon monoxide, produced from reactions between the fluorocarbon gas and oxide deposits in the chamber. In certain preferred embodiments, the optical emissions from the by-products in the chamber are monitored during the cleaning process. Changes in the concentrations of fluorine and carbon monoxide can be followed by measuring their optical emission signals at 704 and 483 nanometers, respectively, for example. In some embodiments, therefore, the duration of the first cleaning step 110 depends upon the amount of deposits inside the chamber. For example, in certain embodiments, when there is an 8 micron thick layer ~~later~~ of oxide deposits inside the chamber at the start of the process 100, the endpoint 180 for the first cleaning step 110 is reached after a period of about 15 to about 20 minutes.